



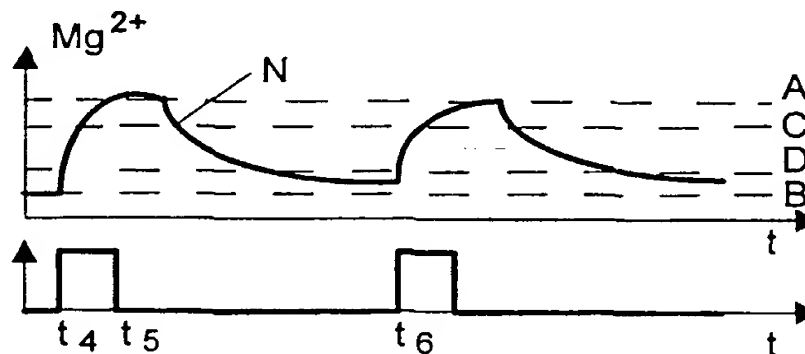
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C12P 21/02		A1	(11) International Publication Number: WO 00/58493
			(43) International Publication Date: 5 October 2000 (05.10.00)
(21) International Application Number: PCT/EP00/02508		(74) Common Representative: ROCHE DIAGNOSTICS GMBH; Patent Department, D-68298 Mannheim (DE).	
(22) International Filing Date: 22 March 2000 (22.03.00)			
(30) Priority Data: 99106754 25 March 1999 (25.03.99) RU		(81) Designated States: CA, JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).	
(71) Applicants (for all designated States except US): ROCHE DIAGNOSTICS GMBH [DE/DE]; D-68298 Mannheim (DE). INSTITUTE OF PROTEIN RESEARCH [RU/RU]; Institutskaya St. 4, Pushchino 142292, Moscow Region (RU).		Published With international search report.	
(72) Inventors; and			
(75) Inventors/Applicants (for US only): BIRYUKOV, Sergey Vladimirovich [RU/RU]; Microregion G, House No. 25, Flat 96, Pushchino, 142290, Moscow Region (RU). SIMONENKO, Peter Nikolaevich [RU/RU]; Microregion AB, House No. 22, Flat 93, Pushchino, 142290, Moscow Region (RU). SHIROKOV, Vladimir Anatolievich [RU/RU]; Microregion D, House No. 4, Flat 30, Pushchino, 142290, Moscow Region (RU). SPIRIN, Alexander Sergeyevich [RU/RU]; Microregion V, House No. 27, Flat 44, Pushchino, 142290, Moscow Region (RU).			

(54) Title: METHOD FOR SYNTHESIS OF POLYPEPTIDES IN CELL-FREE SYSTEMS

(57) Abstract

The method of polypeptide synthesis in eukaryotic or prokaryotic cell-free systems based on a modified version of synthesis in the continuous flow or continuous exchange modes when, in addition to input into the reaction mixture of components maintaining the synthesis and removal from the reaction mixture of low molecular weight components inhibiting the synthesis, the concentration of at least one of the components selected from the group consisting of Mg^{2+} , K^+ , NTP, polyamines or their combinations determining the productivity of the synthesis is continuously changed within the given range of concentrations, while the concentrations of the other components are maintained constant.



FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakhstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		